

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-12 and add claims 13-27 which are as follows:

1 – 12 (Canceled).

13. (New) A CAD system comprising a processing information group and a process definition, the processing information group including: a processed-body division which stores a part whose material substance is to be removed by a series of processing operations, as a body for each of the process operations by pre-defined work instructions given via an input device; and a process-contents division which stores information about work contents of each process operation in relation to the body, the process definition group containing definitions of a plurality of process operations, upon selection from the process operations via the input device and selection of parts as CAD data to be processed via the input device in an original product body, shape information is extracted from the original product body based on the work instructions for each of the selected parts to be processed and tools and parameters for processing the extracted shape are determined based on the selected processing operations and the extracted shape information, processed bodies as CAD data are generated separately from the parts to be processed, the generated processed bodies are stored in the processed-body division, and the determined tools and parameters are stored in the process-contents division.

14. (New) A CAD system comprising a processing information group and a process definition group, the processing information group including: a processed-body division which stores a part whose material substance is to be removed by a series of processing operations, as a body for each of the process operations by pre-defined work instructions given via an input device; and a process-contents division which stores information about work contents of each process operation in relation to the body, the process definition group containing definitions of a plurality of process operations, upon selection from the process operations via the input device and selection of parts as CAD data to be processed via the input device in an original product body, shape information is extracted from the original product body based on the work instructions for each of the selected parts to be processed and tools and parameters for processing the extracted shape are determined based on the selected processing operations and the extracted shape information, processed bodies as CAD data are generated separately from the parts to be processed, as shapes which do not match as after profiling operation or other process

operations, the generated processed bodies are stored in the processed-body division, and the determined tools and parameters are stored in the process-contents division.

15. (New) The CAD system according to Claim 13 or 14, wherein a variety of shapes are defined by using combinations of the tool definition groups.

16. (New) The CAD system according to Claim 13 or 14, wherein the process definition group includes a plurality of the processing operations.

17. (New) The CAD system according to Claim 13 or 14, wherein a combination of a plurality of tools is stored in a selectable-tool set as the pre-defined work instructions, for each kind of the bodies.

18. (New) The CAD system according to Claim 13 or 14, wherein work content data for each of the bodies stored in the process-contents division are attribute data of corresponding body data stored in the processed-body division.

19. (New) The CAD system according to Claim 13 or 14, further comprising a body display control unit which, upon selection from displayed processed bodies, displays work contents related to the processed body.

20. (New) The CAD system according to Claim 13 or 14, wherein the system displays area differences or an interference region if there is any of the area differences between the original product body and the processed bodies generated in correspondence with the parts to be processed, or if the interference region exists between the processed bodies.

21. (New) The CAD system according to Claim 20, wherein the area differences and the interference region are displayed in respective colors or patterns specific to the kind.

22. (New) The CAD system according to Claim 13 or 14, wherein each piece of work content information stored in the process-contents division is an equivalent to a work instruction in a CAM, deletion of any of the bodies causing deletion of the related work contents.

23. (New) The CAD system according to Claim 13 or 14, further comprising a body data control unit which, upon specifying and copying the body to another position, stores work contents for this another position in relation to the copy of the body.

24. (New) The CAD system according to Claim 13 or 14, wherein the process definition group includes a plurality of the processing operations, the system further comprising a body data control unit which creates and displays on a specific area a body corresponding to a processing operation selected from the process definition group upon specification of a location on a drawing.

25. (New) The CAD system according to Claim 13 or 14, wherein the system makes three-dimensional display.

26. (New) A computer program for operating the CAD system according to Claim 13 or 14.

27. (New) A recording medium containing a computer program for operating the CAD system according to Claim 13 or 14.